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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,608	12/02/2003	Hiroyuki Kometani	380-45	3708
23117	7590	03/11/2005	EXAMINER	
NIXON & VANDERHYE, PC 1100 N GLEBE ROAD 8TH FLOOR ARLINGTON, VA 22201-4714			SERGENT, RABON A	
		ART UNIT	PAPER NUMBER	
		1711		

DATE MAILED: 03/11/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

UJ

Office Action Summary	Application No.	Applicant(s)
	10/724,608	KOMETANI ET AL.
	Examiner	Art Unit
	Rabon Sergent	1711

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 20 December 2004.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 16-21 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 16-21 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. 09/973,747.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.

- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date: _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

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1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on December 20, 2004 has been entered.

2. Claims 19-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Within line 4 of claim 19, immediately after "acid", there appears to an omission of text, because the text doesn't read properly.

Furthermore, within claim 19, it is unclear why "acetoacetic acid" appears in parentheses, and it is further unclear why it appears within the claim. According to the specification, suitable acids are unsaturated; however, acetoacetic acid is not unsaturated.

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later

invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 16-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hagio et al. ('104) in view of Laas et al. ('044) and Nakamura et al. ('034) and Hannah et al. ('659).

Hagio et al. disclose the use of salts of cycloamidines, such as applicants' claimed DBU, DBN, and DBD, as catalysts for polyurethane compositions. Patentees further disclose that the aforementioned salts can be produced from the reaction of the aforementioned cycloamidines with unsaturated acids, such as crotonic acid, acrylic acid, and ricinoleic acid. See abstract; column 2; and column 3, lines 14-19.

5. In addition to the teachings of Hagio et al, Nakamura et al. disclose at column 5, lines 1-40, especially lines 1-4, that salts of DBU were known catalysts for polyurethanes, and Laas et al. disclose at column 4, line 65 through column 5, line 13 that bicyclic amidines corresponding to those of applicants were known catalysts for polyurethane yielding coating compositions. Though the aforementioned references fail to specifically recite the use of the catalysts within two-component isocyanate based systems, the use of salts of DBU and DBN within such systems was known at the time of invention, as evidenced by Hannah et al. at column 4, line 65 through column 5, line 27. Furthermore, since the salt forms in a one to one ratio of catalyst to acid, applicants' claimed ratio limitations are considered to be satisfied.

6. Therefore, in view of the aforementioned teachings, the position is taken that it would have been obvious to utilize salts derived from unsaturated acids and cyclic amidines, such as DBU, DBN, and DBD, in their art recognized capacity as catalysts for polyurethane and

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isocyanate based polymeric systems, and that it further would have been obvious to utilize the salts in virtually any type of polyurethane yielding system, including two-component systems.

7. The examiner has considered applicants' examples; however, the examples are not commensurate in scope with the claims in terms of reactant or acid species and index ratio.

8. The examiner has considered applicants' remarks within the response of December 20, 2004, and the prior art rejection has been modified accordingly.

Any inquiry concerning this communication should be directed to R. Sergent at telephone number (571) 272-1079.


RABON SERGENT
PRIMARY EXAMINER

R. Sergent
March 7, 2005